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1 [TIMBER: A native XML database](#)

H. V. Jagadish, S. Al-Khalifa, A. Chapman, L. V. S. Lakshmanan, A. Nierman, S. Paparizos, D. Srivastava, N. Wiwatwattana, Y. Wu, C. Yu

December 2002 The VLDB Journal — The International Journal on Very Large Data E

11 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: Pdf (268.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 46, Downloads (12 Months): 216, Citation Count: 67

This paper describes the overall design and architecture of the Timber XML database sys being implemented at the University of Michigan. The system is based upon a bulk alge manipulating trees, and natively stores XML. New access ...

Keywords: Algebra, Document management, Hierarchical, Query processing, Semi-stru

2 [External memory algorithms and data structures: dealing with massive data](#) [Jeffrey Scott Vitter](#)

June 2001 Computing Surveys (CSUR) , Volume 33 Issue 2

Publisher: ACM

Full text available: Pdf (828.46 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 143, Downloads (12 Months): 942, Citation Count: 77

Data sets in large applications are often too massive to fit completely inside the comput memory. The resulting input/output communication (or I/O) between fast internal mem external memory (such as disks) can be a major performance ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external me hierarchical memory, multidimensional access methods, multilevel memory, online, out-secondary storage, sorting

3 [Heuristic and randomized optimization for the join ordering problem](#)[Michael Steinbrunn](#), [Guido Moerkotte](#), [Alfons Kemper](#)

August 1997 The VLDB Journal — The International Journal on Very Large Data Bas

Issue 3

Publisher: Springer-Verlag New York, Inc.


Full text available: Pdf (385.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 100, Citation Count: 16

Recent developments in database technology, such as deductive database systems, hav the demand for new, cost-effective optimization techniques for join expressions. In this different algorithms that compute approximate solutions ...


Keywords: Genetic algorithms, Heuristic algorithms, Join ordering, Query optimization, algorithms

#### 4 [The power of two min-hashes for similarity search among hierarchical data objects](#)

 [Sreenivas Gollapudi, Rina Panigrahy](#)

June 2008 PODS '08: Proceedings of the twenty-seventh ACM SIGMOD-SIGACT-SIGART Symposium on Principles of database systems

Publisher: ACM

Full text available:  Pdf (230.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 72, Citation Count: 0

In this study we propose sketching algorithms for computing similarities between hierarchical data objects. Specifically, we look at data objects that are represented using leaf-labeled trees denoting elements at the leaves organized in a hierarchy. ...


Keywords: earth movers distance, locality sensitive hashing, similarity

#### 5 [An XML query engine for network-bound data](#)

[Zachary G. Ives, A. Y. Halevy, D. S. Weld](#)

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Publisher: Springer-Verlag New York, Inc.


Full text available:  Pdf (351.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 123, Citation Count: 21

XML has become the lingua franca for data exchange and integration across administrative enterprise boundaries. Nearly all data providers are adding XML import or export capabilities. Standard XML Schemas and DTDs are being promoted for all types ...


Keywords: Data integration, Data streams, Query processing, Web and databases, XML

#### 6 [Winnowing: local algorithms for document fingerprinting](#)

 [Saul Schleimer, Daniel S. Wilkerson, Alex Aiken](#)

June 2003 SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data


Publisher: ACM

Full text available:  Pdf (180.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 28, Downloads (12 Months): 191, Citation Count: 30

Digital content is for copying: quotation, revision, plagiarism, and file sharing all create problems. Document fingerprinting is concerned with accurately identifying copying, including small copies, within large sets of documents. We introduce ...

#### 7 [Regular expression types for XML](#)

 [Haruo Hosoya, Jérôme Vouillon, Benjamin C. Pierce](#)

January 2005 Transactions on Programming Languages and Systems (TOPLAS), Volume 26

Publisher: ACM

Full text available:  Pdf (349.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 156, Citation Count: 14

We propose *regular expression types* as a foundation for statically typed XML processing. Regular expression types, like most schema languages for XML, introduce regular expression notations such as repetition (&ast;), alternation (&verbar;), ...

Keywords: Type systems, XML, subtyping

### 8 [Automatic web news extraction using tree edit distance](#)

 [D. C. Reis, P. B. Golgher, A. S. Silva, A. F. Laender](#)

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web  
Publisher: ACM

Full text available:  Pdf (1.97 MB)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 242, Citation Count: 26

The Web poses itself as the largest data repository ever available in the history of human efforts have been made in order to provide efficient access to relevant information within a repository of data. Although several techniques ...

Keywords: data extraction, edit distance, schema inference, web

### 9 [Enhancing composite digital documents using XML-based standoff markup](#)

 [Peter L. Thomas, David F. Brailsford](#)

November 2005 DocEng '05: Proceedings of the 2005 ACM symposium on Document engineering  
Publisher: ACM

Full text available:  Pdf (695.86 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 34, Citation Count: 1

Document representations can rapidly become unwieldy if they try to encapsulate all possible document properties, ranging from abstract structure to detailed rendering and layout. A composite document approach wherein an XML-based document ...

Keywords: MathML, MusicXML, PDF, XBL, XML, composite documents, standoff markup

### 10 [Merging changes in XML documents using reliable context fingerprints](#)

 [Sebastian Rönneau, Christian Pauli, Uwe M. Borghoff](#)

September 2008 DocEng '08: Proceeding of the eighth ACM symposium on Document engineering  
Publisher: ACM

Full text available:  Pdf (323.61 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 37, Citation Count: 0

Different dialects of XML have emerged as ubiquitous document exchange formats. For collaboration based on such documents, the capability to propagate edit operations performed on a document is indispensable. In order to avoid the transmission ...

Keywords: CSCW, XML diff, XML patch, fingerprint, office applications, version control

### 11 [Mining, indexing, and querying historical spatiotemporal data](#)

 [Nikos Mamoulis, Huiping Cao, George Kollios, Marios Hadjieleftheriou, Yufei Tao, David W.](#)

August 2004 KDD '04: Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining  
Publisher: ACM

Full text available:  Pdf (347.95 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),


Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 147, Citation Count: 8

In many applications that track and analyze spatiotemporal data, movements obey periodic patterns: the objects follow the same routes (approximately) over regular time intervals. For example, ...

wake up at the same time and follow more or less the ...

Keywords: indexing, pattern mining, spatiotemporal data, trajectories

12 [An analysis of browser domain-isolation bugs and a light-weight transparent defense mechanism](#)

 Shuo Chen, David Ross, Yi-Min Wang

October 2007 CCS '07: Proceedings of the 14th ACM conference on Computer and communications security

Publisher: ACM

Full text available:  Pdf (421.46 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 453, Citation Count: 0

Browsers' isolation mechanisms are critical to users' safety and privacy on the web. Achieving domain isolations, however, is very difficult. Historical data show that even for seemingly simple policies, the current browser implementations ...

Keywords: accenting, browser, domain isolation bug, same-origin policy

13 [Provably secure browser-based user-aware mutual authentication over TLS](#)

 Sebastian Gajek, Mark Manulis, Ahmad-Reza Sadeghi, Jörg Schwenk

March 2008 ASI ACCS '08: Proceedings of the 2008 ACM symposium on Information, communications and communications security

Publisher: ACM

Full text available:  Pdf (410.43 KB)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 118, Citation Count: 0

The standard solution for user authentication on the Web is to establish a TLS-based secure server authenticated mode and run a protocol on top of TLS where the user enters a password in a HTML form. However, as many studies point out, the ...

Keywords: TLS, browser-based protocols, phishing, user authentication

14 [Containment join size estimation: models and methods](#)

 Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

June 2003 SIGMOD '03: Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Publisher: ACM


Full text available:  Pdf (301.92 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 51, Citation Count: 4

Recent years witnessed an increasing interest in researches in XML, partly due to the fact that XML has now become the *de facto* standard for data interchange over the internet. A large amount of work has been reported on XML storage models and ...

15 [Communications of the ACM: Volume 51 Issue 7](#)

 July 2008 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (6.54 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 4977, Downloads (12 Months): 6313, Citation Count: 0

16 [Functional verification of task partitioning for multiprocessor embedded systems](#)




Dipankar Das, P. P. Chakrabarti, Rajeev Kumar

-  [September 2007 Transactions on Design Automation of Electronic Systems \(TODAES\)](#)  
 Issue 4  
 Publisher: ACM  
 Full text available:  Pdf (533.81 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)  
 Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 189, Citation Count: 0

With the advent of multiprocessor embedded platforms, application partitioning and map gained primacy as a design step. The output of this design step is a multithreaded partit application where each thread is mapped to a processing element ...

Keywords: Containment checking, UML activity diagrams, multiprocessor embedded sy space reduction


17 [Communications of the ACM: Volume 51 Issue 1](#)

-  January 2008 Communications of the ACM  
 Publisher: ACM  
 Full text available:  Digital Edition ,  Pdf (5.97 MB) Additional Information: [full citation](#), [index terms](#)  
 Bibliometrics: Downloads (6 Weeks): 665, Downloads (12 Months): 4496, Citation Count: 0

18 [Generic database cost models for hierarchical memory systems](#)


[Stefan Manegold](#), [Peter Boncz](#), [Martin L. Kersten](#)

August 2002 VLDB '02: Proceedings of the 28th international conference on Very Large Da  
 Publisher: VLDB Endowment


- Full text available:  Pdf (226.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)  
 Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 40, Citation Count: 1

Accurate prediction of operator execution time is a prerequisite for database query optin Although extensively studied for conventional disk-based DBMSs, cost modeling in main DBMSs is still an open issue. Recent database research has ...

19 [Nearest neighbor search methods for handshape recognition](#)

 [Michalis Potamias](#), [Vassilis Athitsos](#)

July 2008 PETRA '08: Proceedings of the 1st international conference on PErvasive Tech Related to Assistive Environments


- Publisher: ACM  
 Full text available:  Pdf (287.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index ter](#)  
 Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 7, Citation Count: 0

Gestures are an important modality for human-machine communication, and robust ges recognition can be an important component of intelligent homes and assistive environm general. An important aspect of gestures is handshape. Handshapes can ...

Keywords: BoostMap, DBH, distance-based hashing, embeddings, gesture recognition, estimation, hash-based indexing

20 [BAR gossip](#)

[Harry C. Li](#), [Allen Clement](#), [Edmund L. Wong](#), [Jeff Napper](#), [Indrajit Roy](#), [Lorenzo Alvisi](#), [Mici](#)  
 November 2006 OSDI '06: Proceedings of the 7th symposium on Operating systems design implementation




- Publisher: USENIX Association  
 Full text available:  Pdf (468.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#)  
 Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 78, Citation Count: 2

We present the first peer-to-peer data streaming application that guarantees predictable and low latency in the BAR (Byzantine/Altruistic/Rational) model, in which non-altruistic behave in ways that are self-serving (rational) or ...

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